

**MALCOLM  
PIRNIE****POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT****NTD980770028**Conrail Passaic River Site55Site NameSite ID NumberPennsylvania AvenueKearny, Hudson Co., NJAddressCity, StateDate of Off-Site Reconnaissance March 5, 1985**SITE DESCRIPTION**

The Conrail Passaic River site is an alias of the Conrail Meadows Yard site (#83), which was operated by Conrail as a refueling station. During inspections, the site was found to be contaminated by oil spills. The facility is now owned by NJ Transit, which plans to renovate and clean up the yard for future use as a refueling and maintenance facility. Soil and ground-water monitoring was recommended by NJDEP in 1981 and implemented in 1982.

**PRIORITY FOR FURTHER ACTION:** High ☐ Medium ☐ Low ☐ None ☒**RECOMMENDATIONS**

A priority of none is recommended for the Conrail Passaic River site since it is an alias for the Conrail Meadows Yard site. See report #83 for additional information. It is recommended that this site be removed from the list of sites in need of inspection.

**Prepared by:** Paul Sidorenko**Date:** April 8, 1985**Of:** Malcolm Pirnie, Inc.



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1-SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE NO 02 SITE NUMBER 33

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)

Conrail Passaic River Site

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

Pennsylvania Avenue

03 CITY

Kearny

04 STATE

NJ

05 ZIP CODE

07032

06 COUNTY

Hudson

07 COUNTY CODE

08 CONG. DIST.

09 COORDINATES

LATITUDE 40 44 37.2

LONGITUDE 74 06 04.2

BLOCK 284

LOT 21A, 35B

10 DIRECTIONS TO SITE (Starting from nearest public road)

NJ Turnpike exit to Lincoln Highway East. Take Central Ave. North to Pennsylvania Ave. Site is north of Pennsylvania Ave.

III. RESPONSIBLE PARTIES

01 OWNER (if known)

NJ Transit Corporation

02 STREET (Business, mailing, residential)

95 Orange Street

03 CITY

Newark

04 STATE

NJ

05 ZIP CODE

07101

06 TELEPHONE NUMBER

(201) 6487977

07 OPERATOR (if known and different from owner)

Conrail Meadows Yard

08 STREET (Business, mailing, residential)

Pennsylvania Avenue

09 CITY

Kearny

10 STATE

NJ

11 ZIP CODE

07032

12 TELEPHONE NUMBER

( )

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE

☐ B. FEDERAL

☐ C. STATE

☐ D. COUNTY

☐ E. MUNICIPAL

☐ F. OTHER

(Specify)

☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED:

MONTH DAY YEAR

☐ B. UNCONTROLLED WASTE (CERCLA 103c) DATE RECEIVED:

MONTH DAY YEAR

☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES

DATE 6/19/84

☐ NO

BY (Check all that apply)

☐ A. EPA

☐ B. EPA CONTRACTOR

☒ C. STATE

☐ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL

☐ F. OTHER

CONTRACTOR NAME(S)

(Specify)

02 SITE STATUS (Check one)

☒ A. ACTIVE

☐ B. INACTIVE

☐ C. UNKNOWN

03 YEARS OF OPERATION

1940

pres

BEGINNING YEAR ENDING YEAR

☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Large amounts of spilled and dumped diesel fuel, lubricants, solvents, and industrial cleaning agents were determined to be present at the site.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Soil and ground-water contamination has been documented. See Conrail Meadows Site #83 for additional information.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2-Waste information and Part 3-Description of Hazardous Conditions and Incidents)

☒ A. HIGH

(Inspection required promptly)

☐ B. MEDIUM

(Inspection required)

☐ C. LOW

(Inspection on time available basis)

☐ D. NONE

(No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT

Fred Schmitt

02 OF (Agency/Organization)

NJDEP/BEERA

03 TELEPHONE NUMBER

(609) 2921215

04 PERSON RESPONSIBLE FOR ASSESSMENT

Paul Sidorenko

05 AGENCY

06 ORGANIZATION

M Pirnie Inc (201) 8450400

07 TELEPHONE NUMBER

08 DATE

4/8/85

MONTH DAY YEAR



<b>01 PHYSICAL STATES</b> <i>(Check all that apply)</i> <input type="checkbox"/> A. SOLID <input type="checkbox"/> E. SLURRY <input type="checkbox"/> B. POWDER, FINES <input type="checkbox"/> F. LIQUID <input type="checkbox"/> C. SLUDGE <input type="checkbox"/> G. GAS <input type="checkbox"/> D. OTHER _____ <i>(Specify)</i>	<b>02 WASTE QUANTITY AT SITE</b> <i>(Measures of waste quantities must be independent)</i>  TONS _____ CUBIC YARDS _____ NO. OF DRUMS _____	<b>03 WASTE CHARACTERISTICS</b> <i>(Check all that apply)</i> <input type="checkbox"/> A. TOXIC <input type="checkbox"/> E. SOLUBLE <input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> B. CORROSIVE <input type="checkbox"/> F. INFECTIOUS <input type="checkbox"/> J. EXPLOSIVE <input type="checkbox"/> C. RADIOACTIVE <input type="checkbox"/> G. FLAMMABLE <input type="checkbox"/> K. REACTIVE <input type="checkbox"/> D. PERSISTENT <input type="checkbox"/> H. IGNITABLE <input type="checkbox"/> L. INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE
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CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

[illegible]

CATEGORY	O1 FEEDSTOCK NAME	O2 CAS NUMBER	CATEGORY	O1 FEEDSTOCK NAME	O2 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

\_\_\_\_\_



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT

PART 3-DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE NJ 02 SITE NUMBER 55

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

01 ☐ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

01 ☐ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 AREA POTENTIALLY AFFECTED: \_\_\_\_\_ (Acres) 04 NARRATIVE DESCRIPTION

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 WORKERS POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT

PART 3-DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES

(Spills/runoff/standing liquids/leaking drums)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

IV. COMMENTS

This site is also listed as: Site #83 Conrail-Meadows Yard.  
It is recommended that this site be removed from the list of sites  
in need of inspection.

V. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports.)

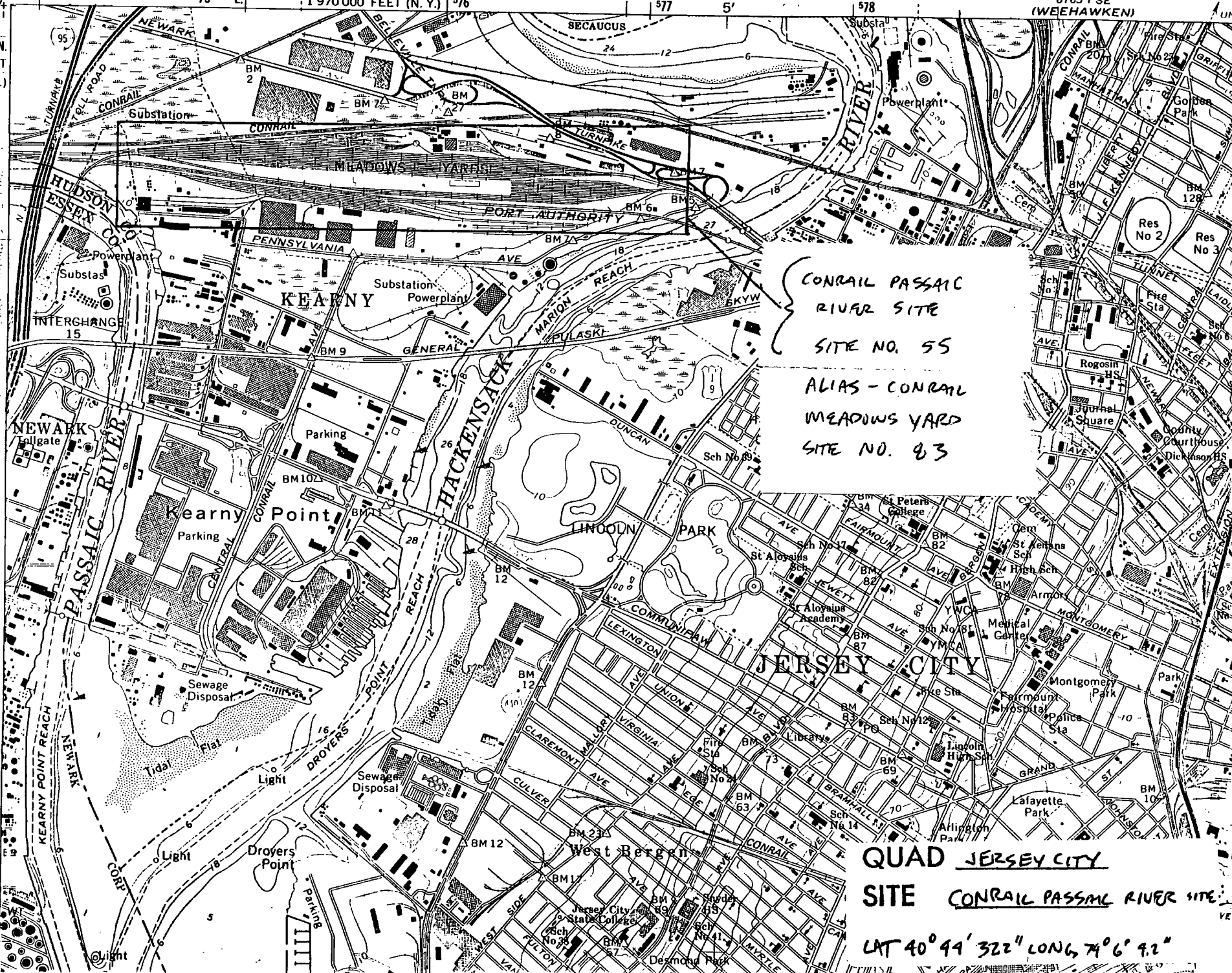
NJDEP/DWR (Trenton, Newark)/USEPA Files: Attachments A through D

# GEOLOGICAL SURVEY

74°07'30" 40°45' 190 000 FEET (N. Y.) 575 000m E 1970 000 FEET (N. Y.) 576

45 11000m N. 190 000 FEET (N. Y.)

61651 SE (WEEHAWKEN)

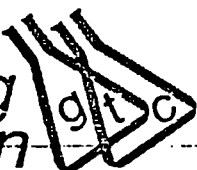


QUAD JERSEY CITY

SITE CONRAIL PASSAIC RIVER SITE

LAT 40°44'32" LONG 74°06'42"

general testing  
corporation



710 Exchange Street  
Rochester, NY 14608  
(716) 454-3760

625 Delaware Ave.  
Buffalo, NY 14202  
(716) 883-4990

85 Trinity Place  
Hackensack, NJ 07641  
(201) 438-5242

## LABORATORY REPORT

Job No. J 962 Date Sept. 13, 1982

Client Converse Consultants  
91 Roseland Ave.  
Caldwell, NJ 07006  
Att: Brian Elwood

Sample(s) Reference  
Volatile Aromatics  
602 Series

Date samples (x) received ( ) collected by General Testing 8/17/82

P.O. # \_\_\_\_\_

### ANALYTICAL RESULTS

(mg/l unless stated otherwise)

#### Sample Description

Sample Description	Replicate			
	A-5A	A-3	A-3A	A-3A
Date(s) Collected	8/17/82	8/17/82	8/17/82	8/17/82
Time(s)	1315	1355	1435	1435
Benzene	0.005	0.006	0.005	0.015
Toluene	0.011	0.006	0.006	0.010
Ethyl Benzene	0.002	<0.001	0.018	0.044
p-Xylene	<0.001	<0.001	0.019	0.051
m-Xylene	<0.002	<0.001	0.038	0.084
o-Xylene	0.002	<0.001	0.011	0.036
Styrene	<0.001	<0.001	<0.001	<0.001
n-Propylbenzene	<0.001	<0.001	0.007	0.019

Attachment A

Analytical procedures in accordance with the Federal Register Method 602, 12/79.

\* Elute Together

Analytical procedures in accordance with Standard Methods for the Examination of Water and Wastewater, 14th Edition and Methods for Chemical Analysis of Water and Wastes, EPA.

(<) indicates lowest detectable concentration with procedure used

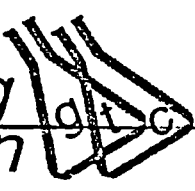
*Richard Schur*  
Laboratory Director

A-1

83  
②

water and wastewater testing specialists

general testing corporation



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(201) 488-5242

# LABORATORY REPORT

Client  
Converse Consultants  
91 Roseland Ave.  
Caldwell, NJ 07006  
Att: Brian Elwood

Job No. J 962 Date Sept. 13, 1982

Sample(s) Reference

MONITORING WELLS  
Kearny, NJ

*NJ Trinity*

Date samples 8/17/82 received ( ) collected by General Testing

8/17/82

P.O. # \_\_\_\_\_

## ANALYTICAL RESULTS (mg/l unless stated otherwise)

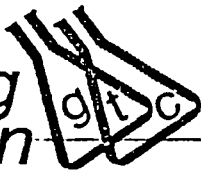
Sample Description

Date(s) Time(s)	Collected	A-5A	A-3	A-3A	Replicate A-3A
		8/17/82	8/17/82	8/17/82	8/17/82
		13.15	1355	1435	1435
Grease/Oil					
Chlorides		28	36	36	27
		91	35	32	36
Sulfates		<1	<1	<1	<1
Total Dissolved Solids		555	265	228	230
Arsenic		0.010	0.030	<.005	<.005
Barium		(0.3)	0.1	0.1	0.1
Cadmium		<0.025	<0.025	<0.025	<0.025
Chromium, Total		<0.05	<0.05	<0.05	<0.05
Copper		<0.05	<0.05	<0.05	<0.05
Lead		<0.1	<0.1	<0.1	<0.1
Mercury		<.0003	<.0003	<.0003	<.0003
Selenium		<.010	<.010	<.010	<.010
Silver		<0.02	<0.02	<0.02	<0.02
Zinc		<0.02	<0.02	<0.02	<0.02

Analytical procedures in accordance with Standard Methods for the Examination of Water and Wastewater, 14th Edition and Methods for Chemical Analysis of Water and Wastes, EPA.  
(<) indicates lowest detectable concentration with procedure used

*[Signature]*  
Laboratory Director

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# LABORATORY REPORT

Job No. J 962 Date Sept. 13, 1982

Client  
Converse Consultants  
91 Roseland Ave.  
Caldwell, NJ 07006  
Att: Brian Elwood

Sample(s) Reference  
Volatile Halogenated Organics  
601 Series

Date samples (X) received ( ) collected by General Testing 8/17/82

## ANALYTICAL RESULTS

P.O. #		(mg/l unless stated otherwise)			
Sample Description		A-5A	A-3	A-3A	Replicate A-3A
Date(s)	Collected	8/17/82	8/17/82	8/17/82	8/17/82
Time(s)		1315	1355	1435	1435
Chloromethane		<0.001	<0.001	<0.001	<0.001
Bromomethane		<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane					
Vinyl Chloride*		<0.001	<0.001	<0.001	<0.001
Chloroethane		<0.001	<0.001	<0.001	<0.001
Methylenechloride		0.003	0.002	<0.001	0.012
Fluorotrichloromethane		0.003	<0.001	<0.001	<0.001
1,1-Dichloroethene		0.003	<0.001	<0.001	<0.001
1,1-Dichloroethane		0.003	<0.001	<0.001	<0.001
1,2-Dichloroethene (Trans)		0.003	<0.001	<0.001	<0.001
Chloroform		0.003	<0.001	<0.001	<0.001
1,1,2-Trichloro-1,2,2-Trifluoroethane		0.003	<0.001	<0.001	<0.001
1,2-Dichloroethane		0.003	<0.001	<0.001	<0.001
1,1,1-Trichloroethane		0.003	<0.001	<0.001	<0.001
Carbon Tetrachloride		0.003	<0.001	<0.001	<0.001
Bromodichloromethane		0.003	<0.001	<0.001	<0.001
1,2-Dichloropropane		0.003	<0.001	<0.001	<0.001
1,3-Dichloropropene (Trans)		0.003	<0.001	<0.001	<0.001
Trichloroethene		0.003	<0.001	<0.001	<0.001
1,3-Dichloropropene (Cis), Chlorodibromomethane,					
1,1,2-Trichloroethene*		0.003	<0.001	<0.001	<0.001
2-Chloroethylvinylether		0.003	<0.001	<0.001	<0.001
Bromoform		0.003	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane,					
Tetrachloroethylene*		0.003	<0.001	<0.001	<0.001
Monochlorobenzene		0.035	<0.001	<0.001	<0.001
1,3-Dichlorobenzene (m)		<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene (o)		<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene (p)		<0.001	<0.001	<0.001	<0.001

Analytical procedures in accordance with the Federal Register Method 601, 12/79.

\*Elute together

Analytical procedures in accordance with Standard Methods for the Examination of Water and Wastewater, 14th Edition and Methods for Chemical Analysis of Water and Wastes, EPA.

(<) indicates lowest detectable concentration with procedure used

*Brian Elwood* A-3  
Laboratory Director

# general testing corporation

water and wastewater testing specialists

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(201) 488-5242

## LABORATORY REPORT

Client

Converse Consultants  
91 Roseland Ave.  
Caldwell, NJ 07006  
Att: Brian Elwood

Job No. J 962 Date Sept. 13, 1982

Sample(s) Reference

Date samples (x) received ( ) collected by General Testing 8/17/82

P.O. #

### ANALYTICAL RESULTS

(mg/l unless stated otherwise)

Sample Description

Date(s) Time(s)	Collected	A-5A	A-3	A-3A	Replicate A-3A
		8/17/82	8/17/82	8/17/82	8/17/82
		1315	1355	1435	1435
PCB 1221		<0.005	<0.005	<0.020	<0.020
PCB 1232		<0.005	<0.005	<0.020	<0.020
PCB 1016		<0.005	<0.005	<0.020	<0.020
PCB 1242		<0.002	<0.002	<0.002	<0.002
PCB 1248		<0.002	<0.002	<0.002	<0.002
PCB 1254		<0.002	<0.002	<0.002	<0.002
PCB 1260		<0.002	<0.002	<0.002	<0.002

Replicate A-3A  
Amount Net %  
Added Recovered Recovered

PCB 1016 0.052 0.032 62%

Analytical procedures in accordance with Standard Methods for the Examination of Water and Wastewater, 14th Edition and Methods for Chemical Analysis of Water and Wastes, EPA.  
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*Richard Schuch*  
Laboratory Director

A-4

general testing  
corporation



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Buffalo, NY 14202  
(716) 883-4990

85 Trinity Place  
Hackensack, NJ 07601  
(201) 428-5242

# LABORATORY REPORT

Job No. J1029 Date Sept. 23, 1982

Client

Converse Consultants  
91 Roseland Ave.  
Caldwell, NJ 07006  
Att: Brian Elwood

Sample(s) Reference

SOIL SAMPLES

Date samples ( ) received ( ) collected by General Testing 9/20/82

RECEIVED  
SEP 27 1982

P.O. # \_\_\_\_\_

ANALYTICAL RESULTS  
(mg/l unless noted otherwise)  
all results ug/g

Sample Description

Grease/  
oil

Date(s)  
Time(s)

A-1	1-3'	<10
A-2	1-3'	<10
A-2	5-7'	<10
A-3	2-4'	11,272
A-3	6-8'	6,810
A-4	2-4'	<10
A-4	4-6'	<10
A-5	2-4'	635
A-5	4-6'	432
A-7	2-4'	210
A-8	3-5'	3,446
A-11	2-4'	586
A-12	2-4'	56

Grease & Oils extracted using soxhlet apparatus with freon.

All final analyses are gravimetric.

Analytical procedures in accordance with Standard Methods for the Examination of Water and Wastewater, 14th Edition and Methods for Chemical Analysis of Water and Wastes, EPA.

(<) indicates lowest detectable concentration with procedure used

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*[Signature]*  
Laboratory Director

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO Vince Krysak - Dave Shotwell, Division of Hazardous Management  
FROM Tim Stone THOROUGH William F. Althoff, Bureau of Ground Water Management DATE SEP 2 1981  
SUBJECT Conrail Meadows Yard, Kearny, Essex County

BACKGROUND

On July 31, this writer visited the Conrail Meadows Yard accompanied by Tom Dinger, an engineer from Conrail's Elizabeth office. The purpose of this visit was to familiarize myself with the site and to locate the 10-15 monitor wells that had been recommended by Kathy McBride on a previous site inspection. The use and related spillage of diesel fuel since the mid 1940's has resulted in the pollution of much of the local groundwater to a depth of approximately 10 feet, where a relatively impermeable peat layer exists.

OBSERVATIONS

Inspection reveals that fuel spills are currently restricted to the areas surrounding the fuel loading tracks and the fuel storage tanks. Fuel-soaked gravel, caused by what is considered by Conrail as normal leakage from engines, is prevalent between and bordering most tracks. Spillage during the unloading of tank trucks near the fuel storage tanks has soaked the ground to the west of the tanks. Apparently, the spills are due to careless fuel loading and unloading practices.

Two sump pumps were operating approximately 40 feet east of the fueling area. One pump discharges into a 4-foot diameter pool of bubbling diesel fuel 20 feet E & NE. The second pump appears to discharge 200 feet NE into a 10-foot diameter impoundment which drains into the swampy area to the north. The discharge was emanating from the ground but no pipe was observed. A maintenance man who was not available, during this or previous visits, is reported to know information about these pumps. Their purpose is not apparent to this writer.

At the time of this observation the discharge was clear and odorless while the swamp and impounded water was orange with fuel sheens. The orange coloration and coating may be due to iron precipitation, bacterial processes, diesel fuel, and/or additional unknown discharges.

Ponded water was observed throughout the eastern part of the site, attesting to the high water table. No fuel sheens were observed in this area.

Two hand augered holes were attempted:

Boring A      0-2' ash, fill, sand, w/fuel odor  
                 2-2.5' fuel soaked sand, fuel is free flowing, water 2.5',  
                 obstruction.  
  
Boring B      0-2' ash, fill, sand, no fuel odor  
                 2-3' sand, some gravel, water table 3', no fuel odor, obstructed

RECOMMENDATIONS

1. Spill collection pads should be installed immediately around all tracks where fuel is loaded and where tank trucks unload into the fuel storage tanks.

Attachment B

2. A comprehensive ground water monitoring system consisting of 13 wells should be installed (Attachment 1). The study should concentrate in the present loading area although six (6) wells are necessary on the rest of the property to provide additional hydrologic data. Twelve (12) wells should be approximately 10 feet deep to the top of the peat layer, and screened within one foot of the surface. One well should be approximately 20 feet and screened below the peat layer. This well must be carefully grouted to prevent water from passing through the peat layer. All well heads should be protected by steel pipes set in cement, and provided with locking caps. Casing elevations must be surveyed to the nearest 0.01 foot so water level data (and product thickness) can be measured and contoured.
3. After the monitoring system has been installed and hydrologic data analyzed, an acceptable fuel recovery program should be initiated. This could possibly consist of a number of large diameter wells containing a two- pump system, or a single pump/separator system. Recovery trenches are another option, depending on the geology and results of the study.

The presence of over 40 borings (2.5" dia.) throughout the site should be considered when designing and executing a recovery program. When the borings were dug in 1978 there was no effort to effectively seal them at the peat layer to prevent water from flowing through this otherwise impermeable horizon. This flowthrough could complicate the recovery effort.

I should be notified of the drilling dates enough in advance to plan on being present. I should also be consulted with if the recommended monitoring system is to be modified in any way.

WQM99:clb

cc: Mike Gordon, Division of Water Resources  
Ed Faille, Division of Hazards Management  
Pete Lynch, Division of Water Resources

Mail to

Water Allocation

CN-029

Trenton, N. J. 08625

STATE OF NEW JERSEY

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER RESOURCES  
TRENTON, N. J.

26.13.881

Permit No. 26-5744  
to 26-5744

PERMIT TO DRILL WELL

VALID ONLY AFTER APPROVAL BY THE D.E.P.

*Conrail Meadows*

*Yard*

Owner New Jersey Transit Driller Warren George, Inc.  
Address McCarter Highway & Market Street Address P.O. Box 413  
P.O. Box 10009, Newark, NJ 07101  
ATTN: MR TOM MOORE Jersey City, N.J. 07303

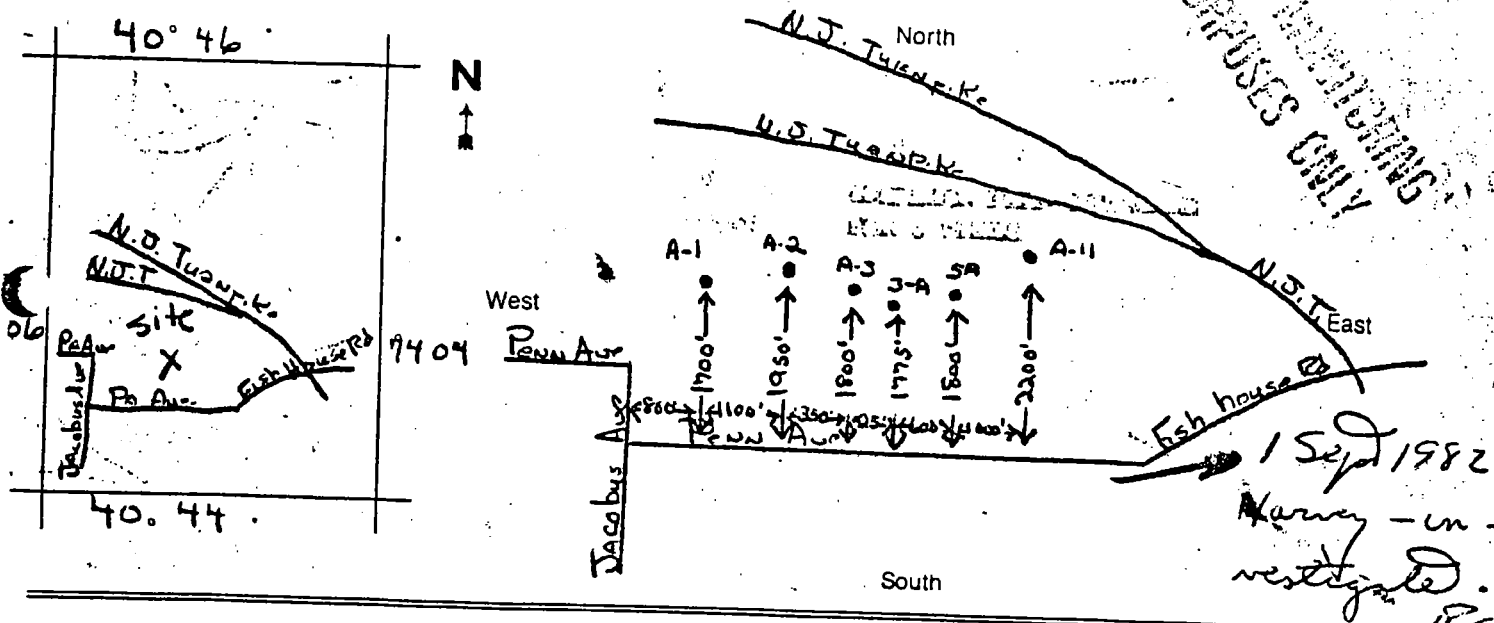
diameter of well <b>Attached</b> inches	proposed depth of well <b>Attached</b> feet	proposed capacity of pump <b>None</b> G.P.M.
method of drilling <b>Rotary</b> (cable-tool, rotary, jet, etc.)		use of well <b>Observation/Monitoring</b> (semi-public, domestic, industrial, public-supply, test, etc.)

LOCATION OF WELL

lot #	block #	municipality <b>Kearny</b>	county <b>Hudson</b>
-------	---------	-------------------------------	-------------------------

Draw sketch showing distance and relations of well site to nearest public roads, streets, septic systems, etc.

State Atlas Map No. 26



SEE REVERSE SIDE for IMPORTANT PROVISIONS AND REGULATIONS pertaining to this permit. APPROVAL of this permit is made SUBJECT TO acceptance of and compliance with the following ADDITIONAL CONDITIONS:

- ☐ Permit issued in accordance with provisions of letter of transmittal dated \_\_\_\_\_.
- ☐ It is necessary that Geophysical Logs of this well be made by the Division of Water Resources. The owner shall require the driller to notify the Division by PHONE (609-292-2232) when drilling is completed. Permanent pumping equipment SHALL NOT be installed until such logs are made.
- ☐ Samples of cuttings required every \_\_\_\_\_ feet.

This space for Approval Stamp

WELL PERMIT  
APPROVED  
AUG 30 1982  
DEPT. ENV.  
DIV. OF WATER RESOURCES

**B-3**

In compliance with R. S. 58:4A-14, application is made for a permit to drill a well as described above.

Date 11 August 1982

Signature of Owner

*Harry - in - vestigate*

LOCAL HEALTH DEPARTMENT COPY

## MEMORANDUM OF MEETING

RECEIVED

NOV 01 1982

DEPT. ENVIRONMENTAL PROTECTION  
NEW JERSEY OFFICE

DATE: October 1, 1982

TIME: 11:00 am

PLACE: New Jersey Transit, Newark

SUBJECT: Rail Equipment Maintenance Facility  
Review of Water Quality and Soil Conditions of Project  
Site with New Jersey DEP

## Present were:

Tom Moore	NJT	Joe DeSalvo	Converse
John Weber	NJT	Brian Ellwood	Converse
✓ Bob Pfeiffer	NJ DEP, Newark	Gary Bartholomaeus	SSVK/DMCM
Tim Stone	NJ DEP, Trenton	Jim Francomacaro	SSVK/DMCM

This meeting was scheduled to review with NJ DEP water quality and soil conditions of the site of NJT's future rail equipment maintenance facility. Possible measures for site cleanup were also considered. Major points discussed included the following:

1. There are three sources of information about the site: 1978 Conrail (CR) borings and soil analysis, 1981 NJ DEP site observations and a scheme for monitoring wells, and the current test results and monitoring scheme prepared by Converse Consultants. All of this information has been plotted on a preliminary Exploration Plan of the site. A copy was given to NJ DEP; another copy will be sent to HMDC. Copies of the Consultant's test results (boring logs and lab tests) will be sent to both DEP and HMDC. HMDC will also receive a copy of these minutes.
2. Conrail identified three ground areas which require attention, areas 100, 200 and 300. CR's analysis called for new waste water treatment plants at the east end of the site and an excavated trench/dike system for area 300 which would pump to a waste water treatment plant. None of these measures were pursued.
3. NJ DEP made field observations in 1981 and developed a program calling for monitoring wells and testing of results.

Attachment C

## Memorandum of Meeting (cont'd)

October 1, 1992

Subject: Rail Equipment Maintenance Facility  
Review of Water Quality and Soil Conditions  
of Project Site with New Jersey DEP

Page 2

4. Converse currently has three piezometers and three monitoring wells (two shallow, one deep) on the site. There have been numerous borings and tests/analysis of soil samples. At the east end of the property (CR areas 100 and 200), the soil is contaminated, but levels are low and the contaminants seem to be locked into the soil. In area 300 near the middle of the site where CR services its locomotives, there are significant accumulations of oil and grease in a two-foot layer which starts three feet below grade. No PCB's were discovered.
5. Converse described plans calling for additional monitoring and testing on the site to define the nature and areal extent of contamination and to develop recommendations for site cleanup. Twelve more monitor well locations were identified to assemble data on groundwater conditions. In the 100 and 200 areas, Converse is planning a well for two reasons. Analysis of the discharge and soil periodically would enable the Consultant to determine if the contaminants are locked into the soil or whether they are likely to become dislodged over time. If the present or ultimate water quality is satisfactory the same well might generate enough water for the train washer. For the 300 area, a number of wells with dual pump system may be feasible.
6. NJ DEP expressed no reservations about the Consultant's scheme to monitor groundwater and soil contamination at the east end of the property. They did suggest that the proposed well at the east end be kept away from the 300 area. In the 300 area, DEP recommended a revised pattern of monitoring wells in order to more fully ring the area.
7. Subsequent to this meeting, Converse will proceed to prepare a plan to gather additional information concerning water quality and soil conditions based on the methods described above. The Consultant will keep DEP advised of new developments.

Respectfully submitted,

SSVK/DMJM

*Gary B. Bartholomaeus*

Gary B. Bartholomaeus

GBB/bb

Distribution: Attendees  
K. Jangaard SSVK/DMJM  
I. Yatzkan SSVK/DMJM  
R. Roberts HMDC

C-2

## STAFF REPORT

5/10/84

the matter of  
New Jersey Transit Corporation

Applicant No. 10330 to temporarily  
divert groundwater during removal of  
existing fill and peat in the Town of  
Kearny, Hudson County

In compliance with the provisions of the N.J.S.A. 58:1A-1 et seq., New Jersey Transit Corporation, 95 Orange Street, Newark, New Jersey filed an application with the Division of Water Resources on March 16, 1984 for approval of plans to temporarily divert a maximum of 4.4 million gallons of water during any month at a maximum rate of 100 gallons per minute from an area, 1,300 feet long and 700 feet wide. The wells or wellpoints will be approximately 15 feet deep and are to be located north of Pennsylvania Avenue, east of New Jersey Turnpike, south of Newark Avenue and west of the Hackensack River, all in the Town of Kearny, Hudson County. Diversion will be from trenches during replacement of existing fill and peat by compacted fill for a proposed Rail Equipment Maintenance Facility.

No objections were filed upon the notice published on March 20, 1984.

## Findings of Fact

1. The New Jersey Transit Authority is constructing a rail equipment maintenance facility on the land formerly owned by Conrail.
2. The existing fill is unsuitable for foundation purposes, and will be removed to a depth of 15 feet.
3. The water table, in the area is 1 to 3 feet below the ground surface.
4. Direction of groundwater flow is generally to the east or southeast.
5. Approximately 50 feet west of the proposed dewatering project, the groundwater is contaminated by oil spillage. Water pumped will be separated from oil in a settling tank and before being discharged to the Hackensack River under NJPDES Permit No. 0031992.
6. The engineer report states that a barrier will be provided to prevent the flow of oil contaminated water toward the area to be dewatered.
7. The existing oil contaminated groundwater will be controlled and improved by continued operation of an existing oily water collection system.
8. The monitoring wells, drilled within and adjacent to the planned excavation area, indicate that water pumped from the entire excavation will approximate drinking water standards.
9. A dozen test pits excavated in the area did not indicate presence of oil or oil-saturated soils.

10. There is no known public or private surface or groundwater supply in the area.
11. The applicant's engineer report states that diversion will not cause salt water intrusion.

#### Staff Analysis

1. Dewatering will cause siltation and erosion of soil. The applicant or his contractor should be required to construct siltation basins and adopt measures against soil erosion.
2. The applicant should be required to keep an up-to-date and accurate account of the amount of water removed.
3. Water will be discharged into ditches after being pumped from the trenches.
4. Groundwater will probably be replenished by the Hackensack River on the east and the Passaic River on the west.
5. This is an industrial area in which there are no known water supply wells which might be interfered with.

#### Conclusions

1. Dewatering is necessary for the safe construction of the proposed Rail Equipment Maintenance Facility. Diversion is in the public interest.
2. The diversion will not cause groundwater pollution or salt water intrusion.
3. The diversion will not unduly interfere with other users.

#### Recommendations

Issuance of the permit is recommended subject to the standard conditions and to the following specific conditions:

1. The amount of water which may be diverted under this permit shall not exceed 4.4 million gallons of water per month, at a maximum rate of 100 gallons per minute, from proposed wellpoints approximately 15 feet deep.
2. Diversion shall be metered or the total hours of operation and the pumping rate of each diversion shall be recorded permanently in a book to be kept on the premises and the computed amount of water diverted each month shall be reported to the Water Allocation Office.
3. Permittee shall employ temporary erosion control measures so as to reduce erosion caused by groundwater diversion. Control measures shall include, but not be limited to berms, dikes, drains, soil stabilization matting, diversion channels, baled hay or straw, silt fences and sedimentation basins. Applicant shall control erosion of earth resulting from the construction.

4. This permit will expire 3 years after initiation of construction.
5. The permittee shall insure that all homes and commercial establishments within the contract area will have a continuous supply of potable water throughout the construction. Any potable water well system which becomes damaged, dry, has reduced capacity, reduced water quality, or is otherwise unusable as a potable water well system shall be repaired or replaced by a licensed well driller. All work shall be directed by the Health Officer in accordance with "Standards for the Construction of Public Non-Community and Non-Public Water Systems", N.J.A.C. 7:10-3.
6. All wells and points shall be examined after use and properly sealed so that contaminants cannot enter the abandoned holes.
7. At any time, if and when indicated by failure of the applicant to comply with any of the terms and conditions herein, or in the public interest and after due process, this permit may be reviewed for possible modification or revocation thereof.
8. The Water Allocation Office shall be notified when the construction contract is let. Applicant shall be liable at that time for water allocation fees established by regulation.
9. The Water Allocation Office shall be further notified 48 hours prior to the initiation of construction, indicating the time and place where construction is to begin.
10. This permit shall not become operative unless and until the applicant has filed with the Division within 60 days from the date of transmittal hereof, written acceptance of the terms and conditions hereby imposed.

Respectfully submitted,

*Aziz Syed*  
Aziz Syed  
Water Allocation Office

5-10-84

ERN

*OK WWC*

D-3

**MEMO**

NEW JERSEY STATE DEPARTMENT

ENVIRONMENTAL PROTECTION

TO Peter Lynch through Robert Plumb

FROM Robert Pfeiffer *RJP*

DATE June 19, 1984

SUBJECT NJ Transit Kearny Site Inspection

At the request of Joseph Rogalski I went to the Kearny Meadows Yard on June 18, 1984 to inspect the excavation at the construction site. Since June 15, 1984 the HMDC landfill in Kearny had been shut down by DWM, due to the black appearance of the soil from the excavation which was being used as cover material. The Town of Kearny had notified DWM that they were concerned it might contain petroleum and possibly PCB's.

Mr. John MacDonald of Morrison Knudsen, Supervising Engineer, showed the area to me and Messrs. Elwood and DiSalvo of Converse Consultants who were also present. He said they have been excavating for about 6 weeks and taken the soil to HMDC landfill with no problems. Many cedar timber pilings had been encountered, but these were being held aside on NJ Transit property, while the three layers of soil - (fill, meadow mat and sand) - had been trucked away. Due to the meadow mat in the mixture it all appeared black.

The excavation was very large - estimated 1 to 2 acres - and 15' deep. Careful inspection of the entire area revealed no liquid petroleum nor buried drums. In about 6 separate areas on the side walls we did see very slight oil sheens which could have come from a spoonful to a cupfull of oil at the most. The largest of these spread out to a sheen of about 3' x 4' on the water in the bottom.

The water collecting over the entire site was being pumped out, under Dewatering Permit No. 1038D, issued June 11, 1984 by William Whipple. At the point of discharge to a trench leading to the meadows, the water while turbid, showed no visible sign of oil sheen.

The soil overall did not appear to be a threat to the environment. Also the analyses that Converse had reported in their reports on two spots in that area indicated low petroleum hydrocarbons and oil and grease, and no PCB's. I reported these observations to Mr. Rogalski. He then said he wanted to send one of his DWM representatives, and asked me to wait there to participate in a joint inspection.

Mr. John DeFina and D. Ferrara arrived in about 2 hours. They were shown the drawings of the area with all analytical data, and they questioned Mr. MacDonald and Mr. Elwood. Upon inspecting the area they took 2 soil samples, one from a freshly excavated layer of peat and one from the undisturbed surface layer at the southern limit of intended construction. They also took a sample of the water being discharged from the dewatering line. They phoned their observations to Mr. Sadat in Trenton who asked for a meeting to discuss them that evening, later changed to the following morning.

E69:G25

Attachment E

## MEMO

NEW JERSEY STATE DEPARTMENT C

ENVIRONMENTAL PROTECTION

TO Peter Lynch through Robert Plumb

FROM Robert Pfeiffer RJP

DATE July 29, 1982

SUBJECT Meeting - Con Rail, Kearny Meadows Yard

A meeting was held on July 26, 1982 in the Ground Water Management Section, DWR concerning the above subject. Participating were:

John M. Weber - NJ Transit - Dir., Div. of Maintenance - 201-648-7482  
Tom Moore - NJ Transit - Project Manager - 201-648-7331  
Irwin Yatzkin - Seelye, Stevenson, Value & Knecht - Project Mgr. for  
Seelye, S.V.&K - 212-867-4000  
Joseph DeSalvo - Converse Consultants - Sr. V.P. - 201-226-9191  
R.B. Ellwood - Converse Consultants - V.P. - 201-226-9191  
Ed Faille - NJDEP - Hazard Waste Mgt. - 609-292-3868  
Tim Stone - NJDEP - Geologist, GWM - 609-292-0668  
Robert Pfeiffer - NJDEP - DWR Enforcement - 201-648-2200

Mr. Stone presented several engineering studies, reports, drawings and tables of data on the Kearny Meadows Yard, prepared by Barer Engineering around 1978 and 1979. None of the consultants or NJ Transit representatives were familiar with these, and plans were made for them to obtain copies of each.

NJ Transit is planning to thoroughly clean up the Kearny Yard as it assumes all of Con Rail's operations. They will then build a complete new service facility for all 85 diesels used in this area, and then close down other facilities at Elizabethport, Raritan and Bay Head. It will be primarily a refueling and maintenance operation but will also include train washing and lubrication. The NJDOT is buying land for NJ Transit to permit some trading off with Con Rail, before starting to build.

Converse started borings last week and are continuing. Their specialties are ground water studies, monitoring wells, piezometers, etc. and soil stability studies for foundations. They are sub-contracted to Seelye, Stevenson, V&K. About 35 to 40 borings were made by Barer Engineering in 1978, but were never sealed and some have now disappeared. These are possible sources of cross contamination of the various strata, as analyses now show oil below the peat layer. Barer had proposed clay barriers around oil-soaked areas with recovery pumping of the contained oil. This was never implemented, although Con Rail is presently pumping oil from a sump to a holding tank.

Communications with NJDEP: It was requested that prior notification be given to T. Stone whenever any wells or borings are to be made. Also E. Faille is to be the contact on all recovery and construction work. He will forward the TWA applications to DWR when received.

Attachment F

Mr. Yatzkin said their goal for completion of facilities is late 1984, breaking ground in summer of 1983, with 2 or 3 conference meetings with NJDEP before then. Designs call for servicing 14 diesels/day. Fueling will be supervised to prevent spillage and using Houston filler valves that cannot be bypassed, and area paved to collect any spills. There will be some painting and acid cleaning, lube oiling and collecting, car and engine washing and chromate recycling. NJ Transit inquired if TWA Stages I,II and III were necessary and we replied affirmative. Also told them HMDC regulations would have to be observed.

E69:G25

MALCOLM  
PIRNIE

## OFF - SITE RECONNAISSANCE

Date: 3/5/85Time In 12:45 PM Out 1:15 PMSite ID No. 83Site Name: Conrail - Meadows Yard

Location: \_\_\_\_\_

Address: \_\_\_\_\_

City, County: Ream, Essex

Zip: \_\_\_\_\_

Personnel: Joseph ZelloSOTERIOS STAVROUTitle: Environmental EngineerASS. Environmental EngineerConditions: Sunny + CTemperature: 55°FAny evidence of imminent hazard? NoIllegal Dumping? NoUncapped Monitoring Wells? No

If Yes, Notify NJDEP

Signature: Joseph ZelloDate: 3/5/85Witness: Soterios StavrouDate: 3/5/85

Site: Cornell - Meadows YardSite ID No. 83Date: 3/5/85

- Area is a large truck transfer station for Cornell
- Much of the area is inaccessible and is only visible from Penn. Ave. or Newark - Jersey City Tpk.
- Small brook running N to Penn. Ave. near Entrance to facility
- Much of yard is blocked from view by other companies along Penn. Ave.

Signature: [Signature]Date: 3/5/85Witness: Sofia's StinsonDate: 3/5/85

Subject: Cornell Meadows Yard Site ID No. 83  
Date: 3/5/85 Page No.  
ASA: 100  
Frame No: Object photographed:\* Location of photographer:\* Compass heading:  
7 Panorama view of grounds Newark - Jersey City Tpk. S  
8 " " S  
9 " " S  
10 " " S  
11 " " S

\*Indicate on sketch or map if possible

Signature:

Joseph J. de  
Soterio starr

Date:

3/5/85

Witness:

Date:

3/5/85

MALCOLM  
PIRNIE

MAPS AND SKETCHES

Page 4 of 4

Site: Canal / Meadows

ID No. 83

Site not visible from  
public roads to draw detail  
refer to Attached map

Signature: Joseph Zolt

Witness: Soterius Stammers

Date: 3/5/85

Date: 3/5/85

MALCOLM  
PIRNIE

SITE NAME: Conrail - Meadows Yard  
Hudson

ID NO: 83

LOCATION: Kearney

FILE	SEARCH DATE	REVIEWER	RCRA 300I FORM	CERCLA 103C FORM	PRELIMINARY INSP. REPORT	FIELD INSPECTION REPORTS	AGENCY INTERNAL REPORTS	RESP. PARTY CORRESPONDENCE	FORMAL REPORTING DOCUMENTS	SITE SKETCHES	ANALYTICAL DATA	SECOND SEARCH DATE	REMARKS	QA CHECK
EPA - Edison	1/30/85	R.J.	NF							✓				
NJDEP. DWR Newark	2/4/85	R.J.	NF		✓					✓				

CODES:

- ✓ REVIEWED AND COPIED
- X REVIEWED BUT NOT COPIED
- NF NOT FOUND

MALCOLM  
PIRNIE

SITE NAME:

CONRAIL MEADOWS YARD

ID NO:

83

LOCATION:

KEARNY.

FILE	SEARCH DATE	REVIEWER	RCRA 300I FORM	CERCLA 103C FORM	PRELIMINARY INSP. REPORT	FIELD INSPECTION REPORTS	AGENCY INTERNAL REPORTS	RESP. PARTY MEMOS	FORMAL CORRESPONDENCE	SITE SKETCHES	ANALYTICAL DATA	SECOND SEARCH DATE	REMARKS	QA CHECK
D.W.R. TRENTON	1/21/85					✓				✓	✓			

**CODES:**

- ✓ REVIEWED AND COPIED
- X REVIEWED BUT NOT COPIED
- NF NOT FOUND

MALCOLM  
PIRNIE

SITE NAME: CONRAIL- MEADOWS YARD  
NJD980775028

ID NO: 83  
Kearney, N.J  
LOCATION: (Hudson Co.)

FILE	SEARCH DATE	REVIEWER	RCRA 300I FORM	CERCLA 103C FORM	PRELIMINARY INSP. REPORT	FIELD INSPECTION REPORT	AGENCY INTERNAL REPORTS	RESP. PARTY MEMOS	FORMAL REPORTING CORRESPONDENCE	SITE SKETCHES	ANALYTICAL DATA	SECOND SEARCH DATE	REMARKS	QA CHECK
EPA- Fed Plaza	1/28/85	MM	NF	NF	NF	NF	NF	NF	NF	NF	NF		no data on file except: Location: OFF NJ TPKE and Pennsy Ave. Zip: 07032- Latitude: 40/44/28.0 Longitude: 074/06/55.0	

CODES:

- ✓ REVIEWED AND COPIED
- X REVIEWED BUT NOT COPIED
- NF NOT FOUND
- NA NOT APPROPRIATE

SITE: CONRAIL- MEADOWS YARD

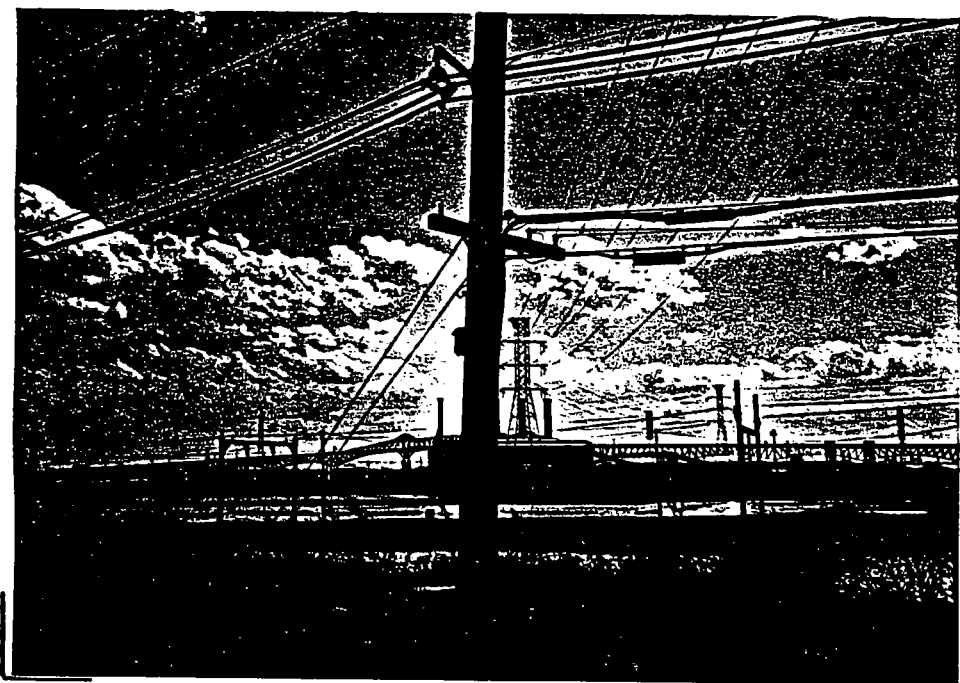
I.D. 83

DATE: 1 MARCH 5, 1985



FRAME: 7 TIME: 12:45 PM DIRECTION: S

DESCRIPTION: VIEW OF THE SITE FROM NEWARK-JERSEY CITY T.P.K.



FRAME: 8 TIME: 12:45 PM DIRECTION: S

DESCRIPTION: VIEW OF THE SITE FROM NEWARK-JERSEY CITY T.P.K.

SITE: CONRAIL - MEADOWS YARD

I.D. 83

DATE: MARCH 5, 1985



FRAME: 9 TIME: 12:45 PM DIRECTION: S

DESCRIPTION: VIEW OF THE SITE FROM NEWARK-JERSEY CITY TPK



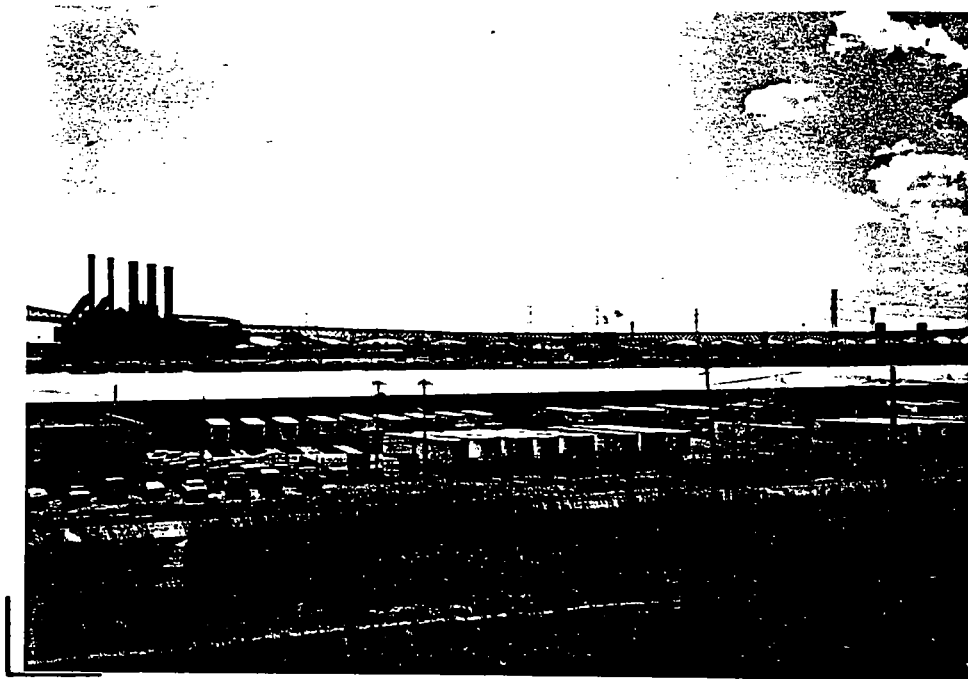
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DESCRIPTION: VIEW OF THE SITE FROM NEWARK-JERSEY CITY TPK

SITE: CONRAIL - MEADOWS YARD

I.D. 83

DATE: MARCH 5, 1985



FRAME: 11 TIME: 12:45 PM DIRECTION: S

DESCRIPTION: VIEW OF THE SITE FROM NEWARK - JERSEY CITY TPK

FRAME: \_\_\_\_\_ TIME: \_\_\_\_\_ DIRECTION: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_